

$\text{Sr}_2\text{RESbO}_6$  compounds of in accordance with this invention.

**IN THE ABSTRACT:**

5 Rare earth metal containing compounds of the general formula  $\text{Sr}_2\text{RESbO}_6$ , wherein RE is a rare earth metal,  $\text{Sr}_2\text{YbSbO}_6$  have been prepared with high critical temperature thin film superconductor structures, and can be fabricated into a superconductor insulator superconductor step edge Josephson junction, as well as being used in other ferroelectrics, pyroelectrics, piezoelectrics, and hybrid device structures.